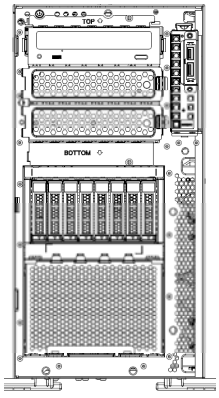
IBM System x3500 M3

IBM® Type - model	Qty x Processor/ Core	L3 cache	Memory	Disk	Disk controller	Slots x bays (hot-swap bays)	Power supply	Ethernet	Available date
7380-32x	1 x Xeon™ E5506 2.13GHz/4C	4MB	1x4GB	Open	SAS/SATA	7x11 (8 HS 2.5" std)	1 x 920W HS	2 x Gb	Mar 2010
7380-42x	1 x Xeon E5620 2.4GHz/4C	12MB	1x4GB	Open	SAS/SATA	7x11 (8 HS 2.5" std)	1 x 920W HS	2 x Gb	Mar 2010
7380-52x	1 x Xeon E5630 2.53GHz/4C	12MB	1x4GB	Open	SAS/SATA	7x11 (8 HS 2.5" std)	1 x 920W HS	2 x Gb	Mar 2010
7380-62x	1 x Xeon E5640 2.66GHz/4C	12MB	2x4GB	Open	SAS/SATA	7x11 (8 HS 2.5" std)	1 x 920W HS	2 x Gb	Mar 2010
7380-72x	1 x Xeon X5650 2.66GHz/6C	12MB	2x4GB	Open	SAS/SATA	7x11 (8 HS 2.5" std)	1 x 920W HS	2 x Gb	Mar 2010
7380-82x	1 x Xeon X5670 2.93GHz/6C	12MB	2x4GB	Open	SAS/SATA	7x11 (8 HS 2.5" std)	1 x 920W HS	2 x Gb	Mar 2010
7380-92x	1 x Xeon X5680 3.33GHz/6C	12MB	2x4GB	Open	SAS/SATA	7x11 (8 HS 2.5" std)	1 x 920W HS	2 x Gb	Apr 2010
7380-E1x	1 x Xeon E5620 2.4GHz/4C	12MB	3x4GB	Open	SAS/SATA	7x11 (8 HS 3.5" std)	1 x 920W HS	2 x Gb	Apr 2010
7380-E2x	2 x Xeon E5630 2.53GHz/4C	12MB	6x4GB	Open	SAS/SATA	7x11 (8 HS 3.5" std)	2 x 920W HS	2 x Gb	Apr 2010
7380-E3x	1 x Xeon X5650 2.66GHz/6C	12MB	3x4GB	Open	SAS/SATA	7x11 (8 HS 3.5" std)	2 x 920W HS	2 x Gb	Apr 2010
7380-E4x	1 x Xeon E5620 2.4GHz/4C	12MB	3x2GB	Open	SAS/SATA	7x11 (8 HS 3.5" std)	2 x 920W HS	2 x Gb	June 2010
7380-94x	1 x Xeon X5680 3.33GHz/6C	12MB	2x4GB	Open	SAS/SATA	7x19 (16 HS 2.5" std)	1 x 920W HS	2 x Gb	July 2010

Positioning	*Ultimate balance of high performance, high availability, expansion capability and ease of management in a stable, long-life platform*
Processor(s)	**Up to two Next Generation Intel® Xeon processors featuring Quick Path Interconnect(QPI) technology at up to 3.33GHz with up to 12MB L3** / **up to 6 Core** / with **Intel Turbo Boost Technology and Hyper-Threading**
L3 cache	**4 or 12MB** std and max / at processor speed
SMP	**2-way SMP** / up to two Xeon Processors (same speed/cache size)
Implementation	Systemboard contains two Socket B (LGA1366) sockets, sixteen DIMM slots, six PCI-E slots, one PCI slot, and integrated SAS/SATA, ethernet and graphics controllers
Memory	Up to 24GB std / **96GB** max per processor(using16GB DIMMs*) / **PC3-10600 1333MHz LP 240-pin Registered ECC DDR3 SDRAM DIMMs** / sixteen slots on systemboard / eight DIMMS per processor / ChipKill / memory mirroring
Disk Controller	**IBM ServeRAID M1015** SAS/SATA controller / 32x, 42x, 52x, E1x / on riser card / PCI-Express / supports **RAID-0/1** / **IBM ServeRAID M5014** SAS/SATA controller / 62x, E2x, E3x, E4x / on riser card / PCI-Express / supports **RAID-0/1/10/5/50** / **IBM ServeRAID M5015** with battery / 72x, 82x, 92x, 94x / on riser card / PCI-Express / supports **RAID-0/1/10/5/50** /
Disk bays	**Up to sixteen 2.5-inch Small Form Factor (SFF)** hot swap disk bays std / up to 24 max via CTO or upgrade options / eight 3.5" HDD
hot swap disk	bays std on E1x, E2x, E4x or via CTO / supports SAS & SATA HS disks
Mechanical	**Tower** / conversion to EIA 26" Rack (5U[4]) via option 69Y0893
Architecture/Chipset	**Intel 5520 Chipset** / Intel IO Hub provides PCI-Express slots 1-5 and links to BCM5709C, enterprise south bridge interface to ICH10 South Bridge / ICH10 South Bridge provides: USB, SATA, PCI-Express links to LSI SAS/SATA controller and LPC bus to VSC452 for video and limited Super I/O, PCI-Express slot 6 and a PCI slot
BUS slots	(See below) One PCI-Express 2nd Gen x16 slot / Four PCI-Express 2nd Gen x8 slots(one reserved for SAS controller) / One PCI-Express 1st Gen x8 slot / One 32-bit 33MHz PCI 2.2 slot
Ethernet	**Two** Gigabit Ethernet ports / Broadcom® 5709C / two full gigabit ethernet MAC and PHY layer functions / integrated / PCI-Express / full duplex / TCP/IP Offload Engine (TOE) / Wake on LAN® / Serial over LAN / PXE 2.0 / Failover, adapter fault tolerance / Load balancing
Optical / diskette	16X[6] DVD-ROM, SATA std on most / DVD multiburner, SATA std on E4x / USB diskette only
Front & Rear ports	*Front:* two USB (2.0) / *Rear:* four USB (2.0), serial (9-pin), graphics (DB-15), three RJ-45 (2 enet, 1 sys mgmt)
Graphics	SVGA / Matrox® G200e integrated in IMM on systemboard / 16MB DDR2-250MHz SDRAM std/max / 32-bit 33MHz PCI 2.2
Systems Mgmt	**Integrated Management Module (IMM)** / VSC452 / WPCT201BA0WG / integrated / provides system and environmental monitoring, event recording, alert capability / TPM 1.2 / ASR / SOL / IPMI 2.0 / SMASH / Remote Presence, blue screen capture std
Diagnostics	**Light Path Diagnostics**™ (LED lights indicate failing component) and on-board diagnostics via preboot DSA
Security	Power-on password / administrator password / unattended boot / selectable boot / unattended start mode
Publications	**Installation Guide and Documentation CD**
Keyboard / mouse	Optional in EMEA and AG / USB only
Power supply(s)	*Std/Max:* one/two 920 watt hot-swap / rear access / auto restart / redundant with two power supplies / auto-sensing
Cooling	**Calibrated Vectored Cooling™** *Std/Max:* three / hot-swap redundant / variable speed / / PFA
Prerequisites	Monitor, keyboard, mouse, SAS/SATA disk, rack, OS

Tower



Slot 1: half-length, PCI-Express x8(x8 electrical)
Slot 2: full, PCI-Express x16 (x8 electrical)
Slot 3: full, PCI-Express x8 (x4 electrical)
Slot 4: full, PCI-Express x8 (x4 electrical)
Slot 5: full, PCI-Express x8 (x8 electrical)
Slot 6: half-length, 32-bit 33MHz 5.0v PCI
Slot 7: full, PCI-Express x8 (x4 electrical)

Bay 1	5.25", HH 1.6"	access,	DVD-ROM
Bay 2	5.25", HH 1.6"	access,	open
Bay 3	5.25", HH 1.6"	access,	open
Bay 4	2.5", SFF .5"	access,	hot-swap
Bay 5	2.5", SFF .5"	access,	hot-swap
Bay 6	2.5", SFF .5"	access,	hot-swap
Bay 7	2.5", SFF .5"	access,	hot-swap
Bay 8	2.5", SFF .5"	access,	hot-swap
Bay 9	2.5", SFF .5"	access,	hot-swap
Bay 10	2.5", SFF .5"	access,	hot-swap
Bay 11	2.5", SFF .5"	access,	hot-swap

- Quick release adapter slots (no screws)
- Configuration/Setup Utility invoked by pressing F1 at startup
- ACPI 2.0-compliant
- Operator Information Panel (in front)
- Predictive failure analysis on disk options, memory, processors, VRMs, power supplies, and fans in conjunction with IBM Director can alert the system administrator of an imminent component failure

- Tower: H 17.3" x W 8.6" x D 30.2"
- 60.4 to 85.6 pounds
- Stealth black color

Max internal disk capacity:
12TB[2] with 24 500GB SAS hot-swap HDDs
(optional upgrade kit required)

Xeon E5502 1.86GHz/4.8GTs/4MB L3 Cache	46D1350
Xeon E5504 2.0GHz/4.8GTs/4MB L3 Cache	46D1351
Xeon E5520 2.26GHz/5.86GTs/8MB L3 Cache	46D1352
Xeon E5530 2.4GHz/5.86GTs/8MB L3 Cache	46D1353
Xeon X5550 2.66GHz/6.4GTs/8MB L3 Cache	46D1355
Xeon X5570 2.93GHz/6.4GTs/8MB L3 Cache	46D1357
1x1GB (1Rx8) PC3-10600 DDR3 SDRAM Registered DIMM	44T1480
1x2GB (2Rx8) PC3-10600 DDR3 SDRAM Registered DIMM	44T1481
1x2GB (1Rx4) PC3-10600 DDR3 SDRAM Registered DIMM	44T1482
1x4GB (2Rx4) PC3-10600 DDR3 SDRAM Registered DIMM	44T1483
920 Watt Hot-swap Power Supply Option (US)	44X0381
IBM ServeRAID-BR10i SAS/SATA Controller	44E8689
IBM ServeRAID-MR10i SAS/SATA Controller	43W4296
146GB 15K SAS SFF slim-HS 2.5" (SFF tray) HDD	42D0677
146GB 10K SAS SFF slim-HS 2.5" (SFF tray) HDD	42D0632
300GB 10K SAS SFF slim-HS 2.5" (SFF tray) HDD	42D0637
500GB 7200 6Gbps NL SAS 2.5" SFF Slim-HS HDD	42D0707

Other options at **ibm.com**/products/us

LIMITED WARRANTY[3]

- **3 year parts and labor**
- **International Warranty Service[3]**
- **On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time[7]**
- **3 year on site warranty service upgrade options (in eligible locations):[7]**
- **9 hour coverage, Mon-Fri excluding holidays, 4 hour avg response** (ServicePac® part num 21P2077)
- **24/7 day coverage, 4 hour avg response** (ServicePac part number 21P2078)
- **24x7[14] toll-free support for warranty issues during the warranty period[3]**